**Raymond Mill**

1. **Product Description**

**Applications of Raymond Mill**

Raymond Mill is widely used in the field of metallurgy, building materials, chemical industry and mining to process powder. It is used in grinding the non-flammable and non-explosive stuff which has the Moh’s hardness below 7, humidity less than 6%, such as gypsum, talc, calcite, limestone, marble, feldspar, barite, dolomite, granite, kaolin, bentonite, bauxite, iron ore etc., the final products change from 613 micron to 44 micron. Through the function of separator and blower, it can meet different customers demand.

**Advantages of Raymond Mill**

1. The whole plant is a vertical structure of strong systematic characteristic, so it occupies small area. From crushing of raw material to grinding and packing is an independent production system.

2. Compared with other milling plants, its passing ratio achieves 99%, this is what other mill can not reach.

3. Driving system of main frame adopts airtight gearing and pulley, drives smoothly and operates reliably.

4. Main parts of the whole plant are made from cast and steel of high quality. The technics is so subtly that insures the durability of whole plant.

5. The electric control system is centralized controlled, so the automaticity is high, no people are needed in the operating room.

**Working principle of Raymond Mill**

Firstly, raw material is crushed by jaw crusher to the size required, then the crushed materials are elevated into a hopper by vibrating feeder, evenly and continuously into the grinding chamber for powder-processing.

After this, the ground stuff are carried by the air from the blower into the separator for screening. The fine powers are blow into the cyclone collector and are poured out through the output-powder valve as the final products and the rough stuff after the screening will be recycled back into the grinding chamber for regrinding.

**Specifications of Raymond Mill**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Model | 3R2115 | 3R2615 | 3R2715 | 3R3016 | 4R3216 |
| Roller | Number | 3 | 3 | 3 | 3 | 4 |
| Diameter (mm) | 210 | 260 | 270 | 300 | 320 |
| Height (mm) | 150 | 150 | 150 | 160 | 160 |
| Ring | Inside diameter (mm) | 630 | 780 | 830 | 880 | 970 |
| Height (mm) | 150 | 150 | 150 | 160 | 160 |
| Maximum feed size (mm) | 15 | 15-20 | 15-20 | 15-20 | 20-25 |
| Output size (mm) | 0.044-0.165 | 0.044-0.165 | 0.044-0.165 | 0.044-0.165 | 0.044-0.165 |
| Power of main frame (kW) | 15 | 18.5 | 22 | 30 | 37 |
| Fineness of final product (mm) | 0.165 | capacity (t/h) | 1.2-1.8 | 1.8-2.5 | 2.3-2.8 | 2.6-3.2 | 3.2-4.5 |
| 0.075 | 0.6-1.2 | 1.2-1.8 | 1.8-2.3 | 1.9-2.6 | 2.4-3.1 |
| 0.044 | 0.6-1.0 | 0.8-1.2 | 0.9-1.7 | 1-1.9 | 1.8-2.5 |